## "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001962510013-3

	A AAA MAA AAAA AAAAA AAAAA AAAAA AAAAA AAAAA AAAA
	ACCESSION NR: AP4037551
	uniqueness of the optimal control is proved for a series of examples. Orig. art. has: 20 formulas.
	ASSOCIATION: none
	SUBHITTED: 23Apr63 DATE ACQ: 09Jun64 ENCL: 00
	SUB CODE: MA NO REP SOV: 008 OTHER: 002
	Card 3/3
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#### 85932

16,3500

B/020/60/134/003/022/033XX C 111/ C 333

AUTHOR: Yegorov, Yu. V.

TITLE: Hyperbolic Equations With Discontinuous Coefficients

PERIODICAL: Doklady Akademii nauk SSSR, 1960, Vol.134, Nr.3, pp.514515

TEXT: In the domain  $Q = \Omega \times [0,T]$ , where  $\Omega$  is a domain of the space  $x = (x_1, \ldots, x_n)$  and is bounded by S, the author considers the hyperbolic equation

(1)  $g(t,x) = \frac{\partial^2 u}{\partial t^2} = \sum_{i,j=1}^n \frac{\partial}{\partial x_i} \left( a_{ij}(t,x) \frac{\partial u}{\partial x_j} \right) + \sum_{i=1}^n b_i(t,x) \frac{\partial u}{\partial x_i} +$ 

1

+ e(t,x)u + f(t,x)

where  $S \ge S_0 > 0$ ,  $a_{ij} = a_{ji}$ .  $\Omega$  is subdivided into domains  $\Omega_{ij}$ , ...,  $\Omega_{m}$  by (n-1)-dimensional surfaces S. The S,  $a_{ij}$  are continuous in  $Q_r = \Omega_r \times [0,T]$ , can, however, show discontinuities Card 1/6

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CIA-RDP86-00513R001962510013-3

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Hyperbolic Equations With Discontinuous Coefficients

of the first kind on the surfaces  $\Gamma = \mbox{$\langle$} x \ [0,T]$ . The author investigates the classical and the generalized solution of the mixed problem for (1) with conditions

(2) 
$$u(t,x) \Big|_{t=0} = \varphi_0(x), \frac{\partial u(t,x)}{\partial t} \Big|_{t=0} = \varphi_1(x), u(t,x) \Big|_{\zeta} = 0$$

where  $G \equiv Sx \left[ 0,T \right]$ . The classical solution is to be twice continuously differentiable in  $\overline{Q}_r$  and satisfy (1) + (2) in  $Q \setminus \Gamma$ , and on  $\Gamma$  it is to verify

(3) 
$$\left[u(t,x)\right]_{\Gamma} = 0$$
,  $\left[K(t,x)\frac{\partial u}{\partial N}\right]_{\Gamma} = 0$ .

Here  $K(t,x) \ge K > 0$  is a piecewise smooth function with discontinuities of the first kind on  $\Gamma$ ;

$$\frac{\partial u}{\partial N} = \sum_{i,j=1}^{n} a_{ij}(t,x) \cos (\gamma,x_i) \frac{\partial u}{\partial x_j}$$

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85932 3/020/60/134/003/022/033XX C 111/ C 333 Hyperbolic Equations With Discontinuous Coefficients

v is the normal to  $\Gamma$ ; and the symbol [v], denotes the jump of v on  $\Gamma$ . A generalized solution of (1), (2), (3) is defined to be an  $u(t,x) \in W_2^{(1)}(Q)$  (see (Ref.4)) for which  $u/_{t=0} = \varphi_0$ ,  $u/_{e} = 0$  and element

$$u/_{t=0} = \varphi_0, u/_{6'} = 0$$
 and

(4) 
$$\int_{0}^{T} \int_{\Omega} \left\{ \kappa \sqrt{\frac{\partial u}{\partial t}} \frac{\partial F}{\partial t} - \sum_{i,j=1}^{n} \kappa_{B_{i,j}} \frac{\partial u}{\partial x_{i}} \frac{\partial F}{\partial x_{j}} + \left[ \sum_{i=1}^{n} (\kappa_{b_{i}} - \kappa_{b_{i}}) \right] \right\}$$

$$\sum_{j=1}^{n} a_{ij} \frac{\partial K}{\partial x_{j}} \frac{\partial u}{\partial x_{i}} + \frac{\partial K}{\partial t} \cdot \frac{\partial u}{\partial t} + Kcu + Kf \right] \right\} F dx dt +$$

$$\int_{\Omega_{i}} (Kg) \Big|_{t=0} F(0,x) \varphi_{1}(x) dx = 0$$
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Hyperbolic Equations With Discontinuous Coefficients is satisfied for every  $F \in W_2^{(1)}(Q)$  which vanishes on G and for  $t \geq t_1$ ,  $t_1 \in (0,T)$ . Theorem 1: Let S,  $a_{ij}$ ,  $b_i$ , c and the generalized derivatives  $\frac{\partial S}{\partial t}$ ,  $\frac{\partial S$ 

The proof is carried out according to 0. A. Oleynik (Ref. 2, 3) by replacing the coefficients g(t,x) etc. by functions

 $g^h \in c^{(\infty)}(Q)$ 

etc. which for  $h \rightarrow 0$  converge in the mean to kg etc. According to (Ref.5) there exists a solution

 $u_h \in C^{\infty}(Q^h)$ 

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#### 85932

/020/60/134/003/022/033XX 111/ C 333

Hyperbolic Equations With Discontinuous Coefficients of the corresponding problem. The author gives an estimation of ||uh|| from which there follow the weak compactness of {u} and thereby the existence of the solutions. The uniqueness is proved according to (Ref. 5).

Theorem 2: If S and  $\forall$  are continuously differentiable up to the order  $1 + 2(1 \ge n + 1)$  if the  $\forall$  are closed and do not intersect themselves and S, if K,  $\beta$ ,  $a_{ij} \in C^{(1+1)}(\overline{\mathbb{Q}}_r)$ ;  $b_i$ ,  $c \in C^{(1)}(\overline{\mathbb{Q}}_r)$ ;  $f \in W_2^{(1)}(\mathbb{Q} \setminus \Gamma)$ ,  $\varphi_0 \in W_2^{(1+2)}(\Omega \setminus \delta')$ ,  $\varphi_1 \in W_2^{(1+1)}(\Omega \setminus \delta')$  $\left[\varphi_{\kappa}\right]_{\chi} = 0, \quad \left[\sum_{p=0}^{\kappa} c^{p} \sum_{i,j=1}^{n} \left(\frac{\partial p}{\partial t^{p}} Ka_{ij}\right)\right]$ 

( d = 0,..., 1)

= 0 and is determined for  $\alpha \ge 2$  very then the generalized where it is Pa = In / 9 ta with the aid of (1) from  $\phi_0$  and

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S/020/60/134/003/022/033XX C 111/ C 333

Hyperbolic Equations With Discontinuous Coefficients

solution of (1), (2), (3) is also the classical solution. For  $1 \ge 1 + 1 + K$  it is  $u(t,x) \in C^{(K)}(\overline{Q_r})$ .

The Cauchy problem can be similarly treated for a linear hyperbolic system of first order with discontinuous coefficients in the plane as well as for some symmetric problems in (t, x, ..., xn).

The author mentions S. M. Nikol'skiy, L. N. Slobodetskiy and B. L. Sobolev; he thanks Q. A. Oleynik for advices.

There are 8 Soviet references.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet imeni M. V.
Lomonosova (Moscow State University imeni M. V.
Lomonosov)

PRESENTED: May 7, 1960, by J. G. Petrovskiy, Academician SUBMITTED: May 6, 1960

Card 6/6

23882

S/186/61/003/001/015/020 A051/A129

21.3200 AUTHORS: Yegorov, Yu.V., Pushkarev, V.V., Tkachenko, Ye.V.

TITLE: Coprecipitation of micro-quantities of Sr<sup>90</sup> with active manganese dioxide in the presence of macro-quantities of barium and potassium

PERIODICAL: Radiokhimiya, v 3, no 1, 1961, 87-89

TEXT: The authors have established that the competition of micro-quantities of Sr<sup>90</sup> with macro-quantities of calcium and barium in their coprecipitation with active manganese dioxide obeys an equation, whereby the logarithm of the distribution coefficient of Sr<sup>90</sup> is linearly dependent on the logarithm of the molar ratio of the total quantity of the analogue to the sorbent. The given equation is said to be derived from the law of active masses. The authors further show that barium is stronger than calcium in suppressing the sorption of Sr<sup>90</sup> with active manganese dioxide; this fact leads to the consorption that the formed sorbing compounds of the calcium and barium manganate

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S/186/61/003/001/015/020 A051/A129

Coprecipitation of micro-quantities of Sr 90

type have varying stability, i.e., the corresponding compound of calcium is more subjected to hydrolysis than the other. The relationship described above was derived from the following considerations: 1) the sorbent is located in the range of saturation by the analogue (barium or calcium), 2) the pH of the solution is constant, 3) the ratio of the activity coefficients of the analogues and Sr<sup>90</sup> in the solid phase is constant, which is the same of the analogues and Sr<sup>90</sup> in the solid phase is constant, which is the same as the absence of a noticeable interaction between the adsorbed cations (Ref 7). The factors used where: A the quantity of the analogue in the solid phase (in moles), Aliquid the quantity of the analogue in the liquid phase (in moles), A = AT + Aliquid the total quantitiy of the analogue in the system (in moles), E the distribution coefficient of Sr 90 equal to the ratio of the adsorbed part to the equilibrium part, m the mass of the sorbent (in moles), z, and z, the charges of the ions of the analogues and Sr. The following relationships are designated by A and G:

(2)

then on the basis of the law of active masses the expression:

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APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962510013-3"

23882 S/186/61/0C3/001/015/020 Coprecipitation of micro-quantities of Sr<sup>90</sup> ... A051/A129

 $K_{o} = \frac{A_{1} \text{ iquid}}{A^{1/2}} \cdot \mathcal{E}^{1/2} \qquad (3) \text{ is found, where } K_{o} = \text{const under conditions of constancy of the temperature; in the given case the volume of solution and sorbent mass are also constant.}$   $If K_{o}^{2} = K, \text{ and transforming (3) we obtain } K = \mathcal{E}^{1/2} \cdot (\frac{A_{o}}{A_{m}} - 1) \quad (4).$ Taking into consideration (1) and (2) and taking the logarithm of (4), the following equation is obtained:

 $1g \ \ell = B - \frac{z_2}{z_4} 1g \ (A-G)$  (5), where  $B = 1g(KG)^{z_2/z_1}$ .

An analysis of the obtained relationship showed that under the given conditions the sorbent has a capacity of 0,38 mM Sr/mM MnO<sub>2</sub>. For sufficiently high values of A, formula (5) is written approximately:

agree favorably with this expression. The absolute value of the angle co-

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Coprecipitation of micro-quantities of Sr<sup>90</sup> ... S/186/61/003/001/015/020

efficient  $\frac{z_2}{z}$  in this range is equal to 1 for both analogues. This proves the equality of the ion charges of these analogues and  $Sr^{90}$  during the exchange process. The macro-quantities of barium have a stronger depressing action on the sorption of the micro-concentrations of  $Sr^{90}$  than equimolar quantities of calcium. This is thought to be due to the different relationship of the analogues to the sorbent. There are 6 formulae and 2 graphs.

Figure 1: Coprecipitation of strontium with active manganese dioxide.

Longmuir's isotherm.

t<sup>0</sup>=17-19<sup>o</sup>C, strontium chloride was labelled with Sr90.

Experiments without access of air.

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### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962510013-3

PUSHKAREV, V.V.; YEGOROV, Yu.V.; TKACHENKO, Ye.V.; PUZAKO, V.D.

BECEUDAM 由了打压的行动。这个面面和影响的影响的比较级的特别,不可能够多数。但可以是这些一个可能的现在分词可能能够不是的现在分词的影响。

Sorption of microquantities of strontium-90 by ferric hydroxide in the presence of alkaline earth metals. Izv.vys.ucheb.zav.; khim.i khim.tekh. 4 no.1:60-63 '61. (MIRA 14:6)

1. Ural'skiy politekhnicheskiy institut imeni S.M.Kirova, kafedra radiokhimii.

(Strontium--Isotopes) (Sorption)

33183

21.4200

S/186/61/003/006/002/010 E040/E185

AUTHORS:

Yegorov, Yu.V., Krylov, Ye.I., and Tkachenko, Ye.V.

TITLE

Contribution to the theory of the distribution of micro-quantities of radioactive strontium between

hydrated oxides and the solution

PERIODICAL: Radiokhimiya, v.3, no.6, 1961, 654-661

TEXT: In spite of the considerable scientific and technical importance of the processes of radioisotope adsorption on metal hydroxide, the mechanism of the process is still far from being elucidated, especially at micro-concentrations of radioisotopes, and no unified ideas have so far been formulated for the co-precipitation of radioisotopes with the hydrates. These problems are analysed theoretically and a series of equations is derived for the absorption of micro-quantities of the cations of radioisotopes (which do not form radiocolloids) by the precipitates of metal hydroxides capable of behaving as cationites in acid media. The following assumptions were made in the derivation of the equations: 1) the hydrated oxides have ion-exchange properties and, under certain definite conditions, behave as a cationite in Card 1/3

Contribution to the theory of ....

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S/186/61/003/006/002/010 E040/E185

acid medium; 2) the law of active mass is applicable to the system; and 3) the radioactive isotope behaves as an electrolyte The equations were checked by plotting at infinite dilution. experimental data obtained for the absorption of radioactive strontium (Sr90) by ferric hydroxide and active MnO2 as a function of the pH of the medium. The S-shaped curves obtained represent a general function of the type y = C + mpH and thereby confirm the correctness of the assumptions made, especially with regard to the ion-exchange character of the sorption of strontium by metallic hydroxides. I.Ye. Starik, A.I. Novikov, L.G. Kuz'mina and Yu. V. Morachevskiy are mentioned in the article in connection with their contributions in this field. There are 3 figures and 22 references: 12 Soviet-bloc, 1 Russian translation from non-Soviet-bloc publication, and 9 non-Soviet-bloc. The four most recent English language references read as follows; Ref. 3: M.H. Kurbatov, G.B. Wood, J.D. Kurbatov. J. Chem. Phys., v.19, 2, 258 (1951).

Card 2/3

X

October 31, 1960

33183

Contribution to the theory of ... S/186/61/003/006/002/010 E040/E185

Ref. 4; M.H. Kurbatov, G.B. Wood, J.D. Kurbatov.
J. Phys. a. Coll. Chem., v.55, 7, 1170 (1951).
Ref. 5; M.H. Kurbatov, G.B. Wood,
J. Phys. Chem., v.56, 6, 698 (1952).
Ref. 16; A. Kozawa, J. Electrochem. Soc., v. 106, 7, 552 (1959).

Card 3/3

SUBMITTED:

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S/121/62/000/004/005/008 D040/D113

/. /(00 AUTHORS:

Kupershmidt, Sh. N., and Yegorov, Yu. V.

TITLE:

Automatic reader for co-ordinate jig boring machines

PERIODICAL:

Stanki i instrument, no. 4, 1962, 33-36

TEXT: The described new reader developed and tested at the Moskovskiy zavod koordinatno-rastochnykh stankov (Moscow Co-Ordinate Jig Boring Machine Plant) for program-controlled jig borers is an improvement on existing optical readers used by this plant, the Leningradskiy stankozavod im. Sverdlova (Leningrad Machine Tool Plant im. Sverdlov) and other plants. The existing device with a 65- or 125-fold amplification has 0.001-0.002 mm scale divisions and produces inadequate line shadow on the screen because the illuminance of the latter is too weak (0.5-2 lx). The new system has an improved photoelectric transducer with light modulation produced by a diagram oscillating at 50 cps, so that the appearance of a dark line in the field of view of the photocell causes a pulse signal on the amplifier output. The diagram is oscillated by an electromagnet connected to

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Automatic reader for co-ordinate jig ....

S/121/62/000/004/005/008 D040/D113

the electric network. The system includes an amplifier, a phase-sensitive stage, and a phase regulator. It has been stated in tests that the optimum diaphragm slot width is 1.3 mm, that the slot length must be smaller than the sensitive layer of the photoresistor, that the slot must be placed precisely opposite the center of the photoresistor, and that the oscillation amplitude must not extend beyond the sensitive layer. The new reader has a reading accuracy higher than  $1\mu$ , a simple design, and stable characteristics. Mathematical formula for the modulator motion, and diagrams of the system and of the photoelectric transducer, are given. There are 9 figures.

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#### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962510013-3

PUSHKAREV, V.V.; TKACHENKO, Ye.V.; YEGOROV, Yu.V.; LYUBIMOV, A.S. Sorption of some radioactive isotopes from aqueous solutions by active manganese dioxide. Radiokhimia 4 no.1:49-54 '62. (MIRA 15:4) (Radioisotopes) (Sorption) (Manganese oxides)

CIA-RDP86-00513R001962510013-3"

**APPROVED FOR RELEASE: 09/01/2001** 

5/186/62/004/003/019/022 E075/E436

Yegorov, Yu.V., Pushkarev, V.V., Tkachenko, Ye.V. On the influence of ethyl alcohol on the sorption of strontium ions with an active manganese dioxide AUTHORS:

TITLE:

PERIODICAL: Radiokhimiya, v.4, no.3, 1962, 371-373 The object of the work was to elucidate the nature of the connection between the parameter of sorption affinity from the Langmuir isotherm, and the solution properties. Langmuir isotherm is given as (1)

 $\frac{C_p}{C_c} = \frac{1}{\Gamma \cdot a} + \frac{1}{\Gamma} c_p$ 

where Cp - equilibrium concentration of Sr2+ in solution;

Cc - adsorption of Sr2+, \( \Gamma \) - capacity of sorbent.

Cc - adsorption of Sr2+, \( \Gamma \) - capacity of sorbent.

Cc - adsorption of Sr2+, \( \Gamma \) - capacity of sorbent.

The compound undergoing of the compound undergoing and the non-aqueous active MnO2 was used as a sorbent.

An active MnO2 was used as a sorbent.

The latter was added to the solution of solvent ethyl alcohol.

The latter was added to the solution of solvent ethyl alcohol. solvent ethyl alcohol. The latter was added to the solution of SrCl2 in water containing a coagulated MnO2 sol. Card 1/2

On the influence of ethyl ...

S/186/62/004/003/019/022 E075/E436

that the capacity of the sorbent is the same in all the experiments. Parameter a increases with the decreasing dielectric constant of the medium. It was shown that when the dielectric constant of the solution changes from 58.0 to 75.5, there exists a linear dependence of 1g a on the reciprocal of dielectric constant of the alcohol-water solution. There are 1 figure and 1 table.

SUBMITTED: May 12, 1961

Card 2/2

YEGOROV, Yu.V.; NIKOLAYEV, V.M.; KRYLOV, Ye.I.; TKACHENKO, Ye.V.

Possibility of using a mixture of isotopes of Sr<sup>89</sup> and Sr<sup>90</sup> Y<sup>90</sup> in direct radiometry. Radiokhimia 4 no.4:516-518 162. (MIRA 15:11)

(Strontium—Isotopes) (Yttrium—Isotopes) (Radiometry)

TKACHENKO, Ye.V.; PUSHKAREV, V.V.; YEGOROV, Yu.V.

Adsorption of strontium by manganese dioxide from water ethanol solutions. Izv.vys.ucneb.zav.; khim.i khim.tekh. 5 no.1:172-174 162. (MIRA 15:4)

1. Uraliskiy politekhnicheskiy institut imeni Kirova, kafedra radiokhimii.

(Strontium) (Adsorption) (Manganese oxides)

YEGOROV, Yu. V.; KRYLOV, Ye. I.

Nature of absorption of electrolytes by some precipitates. Izv. vys. ucheb. sav.; khim. i khim. tekh. 5 no.5:749-752 162. (MIRA 16:1)

l. Ural'skiy politekhnicheskiy institut imeni S. M. Kirova, kafedra khimii i tekhnologii redkikh elementov.

(Adsorption) (Electrolytes)

YEGOROV, Yu.V.; KRYLOV, Ye.I.; TKACHENKO, Ye.V.

Analysis of the sorption capacity of firon hydroxide. Trudy Ural. politekh.inst.no.121:39-44 '62. (MIRA 16:5)

(Iron hydroxides) (Sorption)

#### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962510013-3

PUSHKAREV, V.V.; TKACHENKO, Ye.V.; YEGOROV, Yu.V. ; KARLOV, V.A.

Adsorption of strontium by active manganese dioxide from wateralcohol solutions. Trudy Ural.politekh.inst.no.121:45-48 '62. (MIRA 16:5)

(Strontium)

(Adsorption)

(Manganese oxides)

S/020/62/145/004/002/024 B112/B102

16,8000

AUTHOR: Ye

Yegorov, Yu. V.

TITLE:

Certain problems in the optimum control theory

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 145, no. 4, 1962, 720 - 723

TEXT: A controlling function p(t) ( $|p(t)| \le 1$ ) is said to be I-optimal if the solution of the boundary value problem  $\partial u(t,x)/\partial t = \partial^2 u(t,x)/\partial x^2$ , the solution of the boundary value problem  $\partial u(t,x)/\partial t = \partial^2 u(t,x)/\partial x^2$ , u(0,x) = 0,  $\partial u(t,0)/\partial x = 0$ ,  $\partial u(t,1)/\partial x = \alpha[p(t) - u(t,1)]$ , corresponds to

the minimum value of the functional  $I(p) = \int_{0}^{\infty} \left[ u(T,x) - u_{0}(x) \right]^{2} dx$ , where

 $u_o(x)$  is a given function. It is demonstrated that an I-optimal control exists everywhere. A few other versions of this problem are considered. Their solvability and uniqueness are shown, and convenient methods of solving them are derived.

ASSOCIATION: Moskovskiy gosudarstvennyy universitet im. M. V. Lomonosova (Noscow State University imeni M. V. Lomonosov)

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### "APPROVED FOR RELEASE: 09/01/2001 CIA-RDP86-00513R001962510013-3

S/020/62/145/004/002/024 B112/B102

Certain problems in the optimum ...

March 15, 1962, by L. S. Pontryagin, Academician

SUBMITTED: March 14, 1962

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PRESENTED:

#### "APPROVED FOR RELEASE: 09/01/2001

CIA-RDP86-00513R001962510013-3

YEGOROV, Yu.V. (Moskva)

Some problems in the theory of optimum control. Zhur. vych. mat.
i mat. fiz. 3 no.5:887-904 S-0 163. (MIRA 16:11)

# YEGOROV, Yu.V.; KRYLOV, Ye.I.

Effect of the mass of a collector (hydrated oxide) on the sorption of trace amounts of certain radioactive isotopes. Radiokhimiia 5 no.2:205-211 '63.

Characteristics of the sorption of strontium 90 by active manganese dioxide. 211-215 (MIRA 16:10)

#### 5/186/63/005/002/001/005 E075/E136

AUTHORS:

Yegorov, Yu.V., and Krylov, Ye.I.

TITLE:

Some peculiarities of sorption of strontium-90 on active manganese dioxide

PERIODICAL: Radiokhimiya, v.5, no.2, 1963, 211-215

TEXT: Sorption of micro-quantities of 90 Sr was studied on an active MnO2 resulting from the action of H2O2 on K MnO4 under conditions of free coagulation, whereby the precipitate (MnO2) sorbed a proportion of K+ ions and the pH of the system remained constant. The dependence of [OH-] on the mass "concentration" of the sorbent [ms] was determined acidimetrically. The following equations were obtained:

 $\begin{bmatrix} m_s \end{bmatrix} ef = 0.64 \begin{bmatrix} m_s \end{bmatrix}^{1.24}, \tag{1}$ 

 $[OH^-] = 0.42 \left[ m_s \right]^{1.68}$  (2)

where [mg]ef - effective mass of sorbent. The quantity of 90sr removed by MnO2 is given by:

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#### "APPROVED FOR RELEASE: 09/01/2001

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Some peculiarities of sorption of ... S/186/63/005/002/001/005 E075/E136

where  $K_1$  - constant. Eq.(4) was confirmed experimentally for a solution of K MnO<sub>2</sub> (0.192 to 1.15 mM/ $\ell$ ), KC $\ell$  (8 g/ $\ell$ ) and about 10 microcuries/ $\ell$  90Sr precipitated by H<sub>2</sub>O<sub>2</sub>. K<sub>1</sub> was found to be 164. The amount of coagulant (KC $\ell$ ) affects strongly the distribution of 90Sr between MnO<sub>2</sub> and the solution. There are 3 figures and 1 table.

SUBMITTED: March 26, 1962

Card 2/2

ACCESSION NR: AT4017556

8/3074/62/000/047/0073/0085

AUTHOR: Yegorov, Yu. V. (Assistant)

TITLE: Efficient controlled ferrite phase shifter,

SOURCE: Leningrad. Elektrotekhnicheskiy institut. Izv., no. 47, 1962, 73-85

TOPIC TAGS: phase shifter, ferrite phase shifter, controlled ferrite phase shifter, LSE mode, LSM mode, longitudinal transverse waves, field concentration in ferrite

ABSTRACT: The paper deals with the case of a ferrite slab of arbitrary dimension located near any of the walls of a rectangular wave-guide, magnetized along an arbitrary axis, for an arbitrary wave propagation mode. The solution is obtained by the perturbation method, using the solutions of the unperturbed problem in the form of LSE and LSM modes, the behavior of which was investigated under

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#### ACCESSION NR: AT4017556

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the corresponding cases by the author earlier (Izvestiya LETI, No. 47, 1962). Allowance is made for the concentration of the field in the ferrite, which plays the decisive role in the theory of operation of efficient phase shifters. Simple formulas are proposed for the ferrite-slab calculations so as to ensure maximum utilization of this effect. The calculations are confirmed by experiment. The good agreement between the calculations and the experiment for the case of a single slab leads to the conclusion that the proposed calculation procedure is valid also for other ferrite structures with analogous physical phenomena. This applies also to the phase shifter of Reggia and Spencer (Proc. of IRE, v. 45, 11, 1957). Orig. art. has: 6 figures and 20 formulas.

ASSOCIATION: Leningradskiy elektrotekhnicheskiy institut (Leningrad Electrotechnical Institute)

SUBMITTED: 00May61

DATE ACQ: 20Mar64

ENCL: 00

SUB CODE: GE. SD

NR REF SOV: 003

OTHERY 004

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CIA-RDP86-00513R001962510013-3"

L 10049-63

ACCESSION NR: AR3000388

s/0058/63/000/004/H023/H023

SOURCE: RZh. Fizika, Abs. 4Zhl36

AUTHOR: Yegorov, Yu. V.

TIME: Longitudinal-transverse waves in rectangular waveguide filled with two

different media

CITED SOURCE: Izv. Leningr. elektrotekhn. in-ta, vyp. 47, 1962, 86-97

TOPIC TAGS: waveguides, loaded, field components

TRANSIATION: The propagation of waves in a layered rectangular waveguide is considered. A system of two longitudinal-transverse electromagnetic waves is introduced, equivalent to the system of electric and magnetic waves. For each of these types, a characteristic equation is obtained in the case of two layers of a dielectric in the waveguide. Plots are made for the dependence of the progagation constant in a partially filled waveguide as a function of the composition and thickness of the filling dielectric. G. Postnov

Card 1/2/

 NIKOLAYEV, V.M.; KRYLOV, Ye.I.; BAGRETSOV, V.F.; YEGOROV, Yu.V.

Behavior of radiocolloids of cerium in sorption systems.
Radiokhimiia 5 no.5:622-626 163. (MIRA 17:3)

 I-13342-63 EWT(d)/FCC(w)/BDS AFFTC IJP(C)

ACCESSION NR: AP3000509

3/0020/63/150/002/0241/0244

AUTHOR: Yegorov, Yu. V.

52

TITLE: Optimal control in a Banach space 10

SOURCE: AN SSSR. Doklady\*, v. 150, no. 2, 1963, 241-244

TOPIC TAGS: optimal control, Banach space

ABSTRACT: Given the differential equation

$$\frac{dx(t)}{dt} = f(x(t), u(t)), \quad x(a) = x, \quad (a < t < b),$$

where the range of f and x is a Banach space while that of u is a topological space. The problem is to find x and u satisfying the equation in such a way that u is optimal. Author formulates necessary conditions for u to be optimal in the form of the maximum principle for the following cases: (i)  $x(b) = x_1$ , an arbitrary point; (ii) x(b) S, where S is a manifold; (iii) x(b) T, where T is a convex body. Orig. art. has 3 formulas.

association: Moskovskiv gosudarstvenny vniversitet im. M. V. Lomonosova (Moscov State University)

ACCESSION IR: AP4012265

s/0089/64/016/001/0048/0051

AUTHOR: Pushkarev, V. V.; Yegorov, Yu. V.; Tkachenko, Ye. V.; Zolotavin, V. L.

TITLE: The clearing and purification of radioactive sewage by the flotation method

SOURCE: Atomaya energiya, v. 16, no. 1, 1964, 48-51

TOPIC TAGS: ferrous hydroxide, aluminum hydroxide, flotation method, ion exchange, titration method, nephelometric method, residue, settling method, solvation

ABSTRACT: The flotation of ferrous and aluminum hydroxides to purify radioactive sewage water containing surface-active, detergent, and complex-forming substances has been investigated. The moisture of the floated hydroxides and the effective elimination of the hydratic [sylvite], detergents, and certain radioactive elements from the solution were studied. Elimination of radioactivity from the drain water was determined by the extraction of Sr90, Y90, and Nb95. The temperature maintained in the course of all experiments was 16-20 C. Preliminary tests revealed sulfate scap to be a satisfactory flotation agent for the selected hydraxides. Comparison of

Card 1/2

#### ACCESSION NR: AP4012265

the flotation and settling methods of water purification showed that the residue left by the flotation method is smaller in volume and contains less moisture than the residue obtained by the settling method under similar conditions. Also, the flotation method took much less time than the settling method in clearing the sewage water. Some industrial enterprises use ferrous salts as well as aluminum salts, or a mixture of both, as a coagulant for the purification of their waste waters. It was found that in a low-alkaline medium aluminum hydrocide can clarify a solution by either the settling or the flotation method. Orig. art. has:

3 tables.

ASSOCIATION: none

SURMITTED: 28Jan63

ATD PRESS: 3045

ENCL: 00

SUB CODE: NP .

NO REF BOV: 007

OTHER: 003

Card 2/2

#### "APPROVED FOR RELEASE: 09/01/2001

#### CIA-RDP86-00513R001962510013-3

EWP(k)/EWP(h)/EWT(d)/EWP(1)/EWP(v) IJP(SOURCE CODE: IJP(c) DE: UR/0020/64/159/005/0971/0974 ACC NR: AP6012035 AUTHOR: Yegorov, Yu. V.; Milyutin, A. A. ORG: Moscow-State-University-im. M. V. Lomonosov Moskovskiy gosudarstvennyy universitet); Institute of Chemical Physics. AN SSSR (Institut khimicheskoy fiziki AN SSSR) TITLE: Sufficient conditions for a strong extremum in a class of curves with a bounded derivative SOURCE: AN SSSR. Doklady, v. 159, no. 5, 1964, 971-974 TOPIC TAGS: calculus, optimal control, curve theory ABSTRACT: Strong extremum conditions in classical calculus of variations are of a non-local character. Here it is shown that this is not due to the fact that the functional is not continuous in space C(a,b), but because the space of variation of derivatives is unbounded. In optimal control theory, Compact control space problems are common. Compactness enables one to give sufficient conditions for optimality which are only a function of the extremum, because when the space is compact, it suffices to establish a strong minimum for neighboring curves, where nearness is understood in the sense of the Mathematical Theory of Optimal Processes by PONTRYAGIN, et al. Three theorems are lishing bounds for the Hamiltonians which are functions of coordinates in the phase space. This paper was presented by Academician L. S. Pontryagin on 15 June 1964. Orig. art. has: 8 formulas.

SUB CODE: 12, 13 / SUBM DATE: 11Jun64 / ORIG REF.

YEGOROV, Yu.V.; NIKOLAYEV, V.M.

Radiocolloids in sorption systems. Part 2: Collective sorption isotherm in a system with variable mass of sorbent. Radiokhimiia 7 no.3:273-280 '65. (MIRA 18:7)

TEGOROTA TUENTALEV, B.N.

Rediccolledds in surption systems. Part 3: Effect of mydrogenfen consentration. Radiokhimita 7 no.4:386-394 (MIRA 18:8)

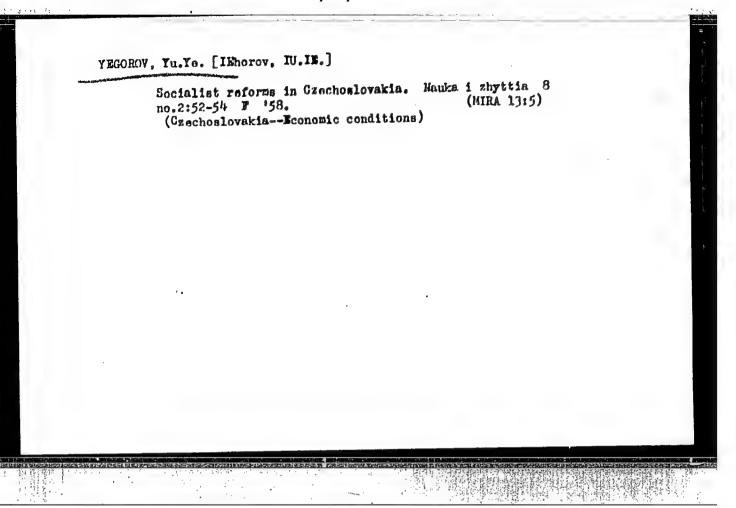
PUSHKAREV, V.V.; KHRUSTALEV, B.N.; YFGOROV, Yu.V.

Possibility of estimating the size of a solvated ion radius by measuring sorption equilibrium. Radiokhimita 7 no.4s 400-405 165. (MIRA 18:8)

# "APPROVED FOR RELEASE: 09/01/2001

## CIA-RDP86-00513R001962510013-3

L 34050-66. EWT(m)/T IJP(c) DS/WW	=
ACC NR: AP6025485 SOURCE CODE: UR/0186/66/008/001/0009/0014	ı
AUTHOR: Yogorov, Yu. V.; Nikolayev, V. H.; Lyubimov, A. S.	
ORG: none TITLE: Radiocolloids in sorptive systems. IV. Role of neutral electrolyte	
SOURCE: Radiokhimiya, v. 8, no. 1, 1966, 8-1/1	
TOPIC TAGS: electrolyte, sorption, cosium, rubidium	
ABSTRACT: The behavior of distributing micro-component-radiocolloid is investigated in a sorptive system with a variable concentration of neutral electrolyte, and it is shown that if stepwise overcharging of neutral radiocolloid particles by electrolyte ions is assumed, the coefficient of gross distribution depends on the electrolyte composition according to a hyperbolic curve. Simplified variants of the isotherm are proposed and verified for the case of sorptions of Celli by vermiculite from a sodium nitrate medium and sorption of Ruloc(III) ny activated manganese dioxide from a potassium chloride medium. It is shown that one of the approximate formulas describing this system can be also derived from the assumption of a relationship of the heat effect of radiocolloid sorption with concentration of neutral electrolyte. V. P. Savel'you	-
participated in the experimental work. Orig. art. has: 3 figures and 24 formulas.	-
JPRS: 35.728 / SUBM DATE: 12Jul65 / ORIG REF: 014 / OTH REF: 006 SUB CODE: 97 / SUBM DATE: 12Jul65 / ORIG REF: 014 / OTH REF: 006	1
Cord 1/1	



YEGOROV, Yu.Ye. [IEhorov, IU.IE.]

The country of mountain eagles. Nauka i zhyttia 9 no.11:57-58 N '59. (MIRA 13:3)

1. Chlen pravleniya Ukrainskogo otdeleniya obshchestva sovetsko-al albanskoy drushby.

(Albania--Economic conditions)

YEGOROV, Yuriy Yevgen'yavich [IEhorov, IU.IE.]; KISEL', Anatoliy Stepanovich [Kysil', A.S.]; PERESADENKO, I.A., otv. red.; SKRIPNIK, V.T. [Skrypnyk, V.T.], red.

[The Ukrainian Soviet Socialist Republic; a reference book] Ukrains'ka Radians'ka Sotsialistychna Respublika; dovidkovyi material. Kyiv, 1961. 39 p. (Tovarystvo dlia poshyrennia politychnykh i naukovykh znan' Ukrains'koi RSR. Ser.1, no.10) (MIRA 14:9)

YEGOROV-KUZ'MIN, A. S.

USSE/Electronics
Magnetrons
Bibliography

Apr 49

"Review of 'Magnetrons' by D. Fisk, G. Hagstrom, and P. Hatman (Translation)," A. S. Yegorov-Ruz'min, 2 pp

"Elektrichestvo" No 4

Favorable review. Subject book is a translation of an article in "The Bell-System Technical Journal," summarizing work done on magnetrons in the US during the war. Book will be useful for wide circles of specialists in ultrahigh-frequency techniques, radar techniques in particular.

TEPLOV, Lov Pavlovich; GUROV, S., red.; YEGOROVA, khudosh.-tekhn.red.

[Sketches on cybernetics] Ocherki o kibernetike. Moskva,
Mosk.rabochii, 1959. 229 p. (MIRA 12:12)
(Cybernetics)

EELKIN, A.; BORISOV, A.; GENIN, B.; GUSLITSER, I.; GRUZDEV, V.; DICH,S.;
DUSEYEVA, Ye.; YEGOROVA, A.; ZAK, S.; KAZYMOV, A.; KRUPENNIKOVA,Ye.;
KONKIN, A.; MOGILEVSKIY, Ye.; PAKSHVER, A.; SMELKOV, G.;
CHICHKHIANI, A.; CHUGUNOV, K.; SHIFRIN, L.; YUNOVICH, E.

Sergei Alekseevich Tairov. Khim.volok. no.3:79 162,
(MIRA 16:2)
(Tairov, Sergei Alekseevich)

ZAKS, H.F. PAOP.; YEGOROVA, A.A.: NYUKAMEN, L.A.; OLEMEY, YU.M.

Milking

Heat action on the udder as a reans of increasing fat content of milk. Sov. zootekh. 7 no. 9, 1952.

SO: Monthly List of Russian Accessions, Hibrary of Congress, November, 1952. Uncl.

## YEGOROVA, A.A.

Composition of milk in successive portions of a single milking.

Izv.Kar. i kol'.fil.AN SSSR no.3:71-80 '58. (MIRA 11:12)

1. Institut biologii Karel'skogo filiala AN SSSR. (Milk--Composition)

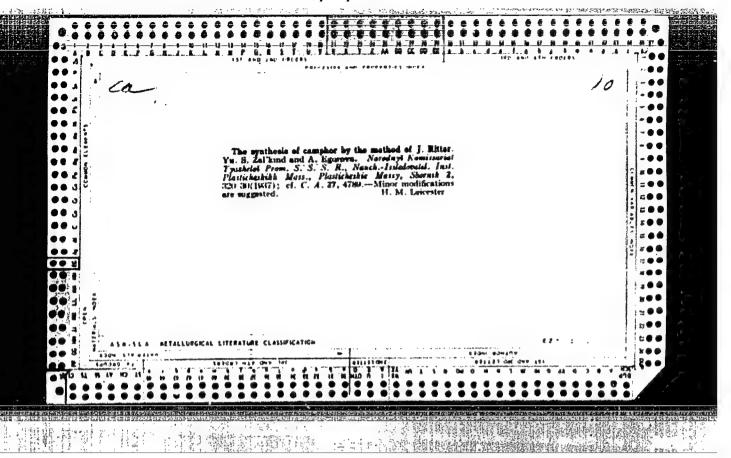
YEDOROVA, A. A., Cand Biol Sci (diss) -- "The content of basic organic substances and the fat composition of consecutive portions of one milking of cows".

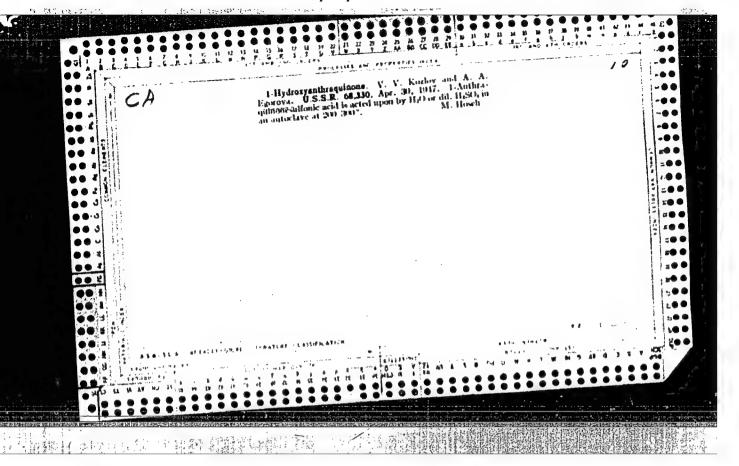
Leningrad, 1960. 21 pp (Acad Sci USSR, Inst of Physiology im I. P. Favlov),

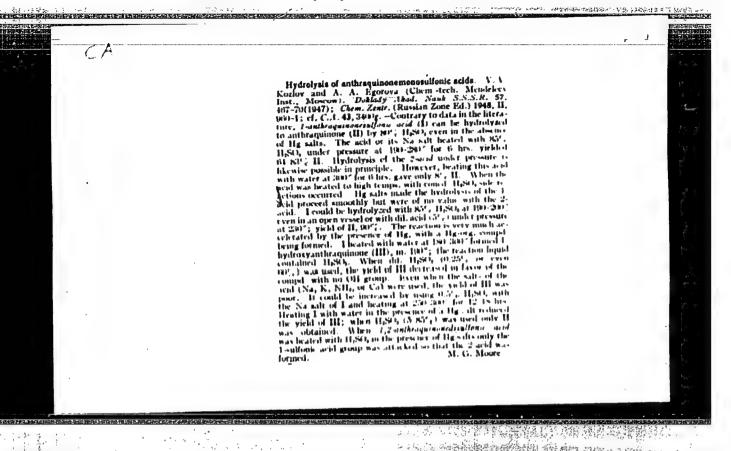
150 copies (KL, No 14, 1960, 130)

NEGINA, V.R.; ZAMYATNINA, V.N.; YEGOROVA, A.A.; Prinimali uchastiye; PRESNYAKOVA, M.A.; CHIKISHEVA, L.S.; SHEVCHENKO, P.P.; TRUBIN, I.A.; MAL'KOV, V.I.

Determination of chlorine, arsenic, and phosphorus impurities in some organic materials by the activation method. Radiokhimiia 5 no.2:270-272 '63. (MIRA 16:10)







KOZLOV, V.V.; YEGOROVA, A.A.

Study of the anthraquinone series. Part 23. Hydrolysis of anthraquinonesulfonic acid- of . Zhur.ob.khim. 25 no.4:809-814 Ap 155.

(HIRA 8:7)

(Anthraquinonesulfonic acid)

YEGOROVA, A.A.

3.

Anthreoutions series. XXIV. Hydrolysis of anthraquinons assistants acid with replacement of the sulfo group by hydroxyl. V. V. Koplov and A. A. Frorova. Zhur. Obricket Rhim. 25, 927-1003(1955); cf. CA. 50, 24904.—Anthraquinone-asulfonic acid (I) is hydrolyzed at above 160° by H<sub>2</sub>O or dil. H<sub>2</sub>SO, in a closed system without participation of Hg catalysts yielding a-hydroxyan-thraquinone; at higher conce. (55%) of H<sub>2</sub>SO, authraquinone also appears. Addn. if Hg salts does not alter the direction of the reaction of hydrolysis, but 5% or more Hg saits favors the formation of anthraquinone rather than of hydroxyanthraquinone. At 230° in H<sub>2</sub>O the const. Is 227 × 10° in a monomicl. reaction; at 190° the const. Is 10.2 × 10°, at 210° 1.02 × 10°, at 230° 2.52 × 10°, at 210° 1.02 × 10°, at 230° 2.52 × 10°, at 300° 6.21 × 10°. Kinetic data are supplied. Also

in J. Gen. Chem. U.S.S.R. 25, 1163-7(1936) Engl. translation). XXV. Hydrolysis of anthragulation-1.8-disulfonic acid. V. V. Kozkov. Ibid. 1200-12; cf. C.A. 43, 3400g.—Authragulation-8-disulfonic acid (I) can be hydrolyzed in H<sub>2</sub>O and H<sub>2</sub>SO<sub>4</sub> at "30° or higher in a closed system without the presence of Hg. 114s. Either one or both sulfonic acid groups are replaced: H or HO, all the combinations being found among the products. Hg taits aid the formation of products in which H replaces the SO.H group. The most complete hydrolysis or are sin 0.25% H.SO.4 when in 6 hrs at 290° 100% 1-hydroryanthragulation-8 sulfonic acid (117, 111, 236° (from RCI), is formed; this forms a sparingly sol,—Na salt.—The amt. of unreacted I can be detd, by treatment of the mixt. with KClO<sub>5</sub>; the J remains unoxidized. If is not chlorinated by KClO<sub>5</sub>. The acidic groups in I are thus not chlorinated by KClO<sub>5</sub>. The acidic groups in I are thus without the presence of HgSO<sub>4</sub> are given in tables and graphically.

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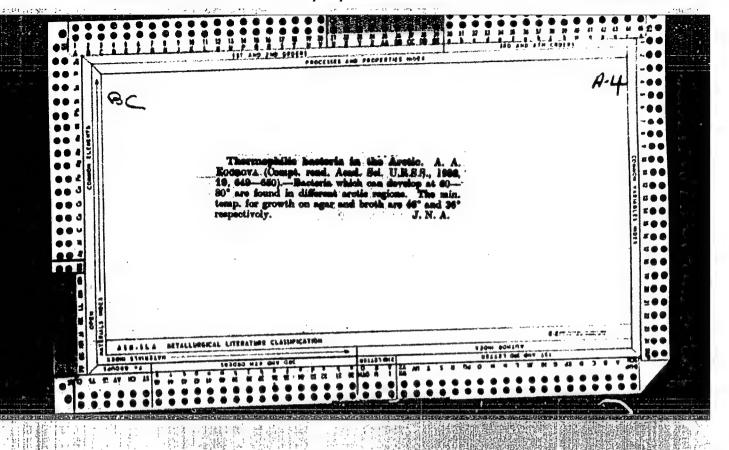
BARSKAYA, T.A., YEOOROVA, A.A.

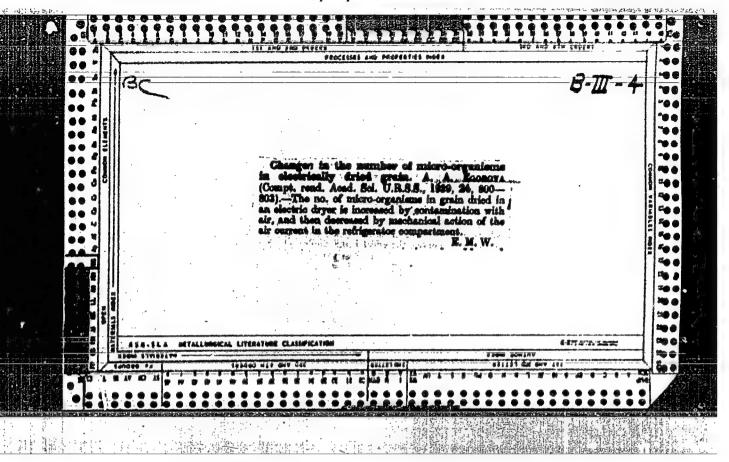
Effect of soil temperature on the activity of catalase and peroxidase in cold resistant plants and plants requiring high temperatures.

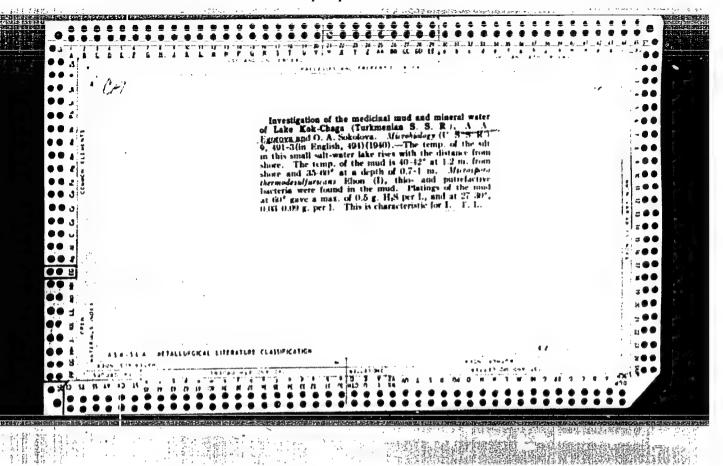
Trudy Kar. fil. AN SSSR no.28:25-30 \*60. (MIRA 14:9)

(Plants, Effect of soil temperature on) (Catalase)

(Peroxidase)





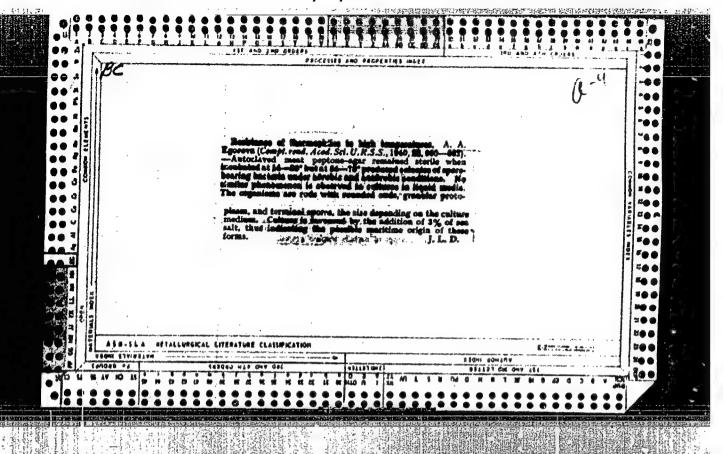


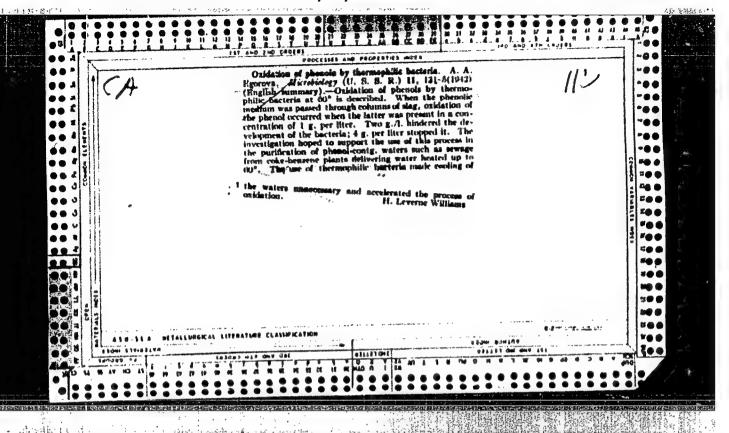
YEGOROVA, A. A.

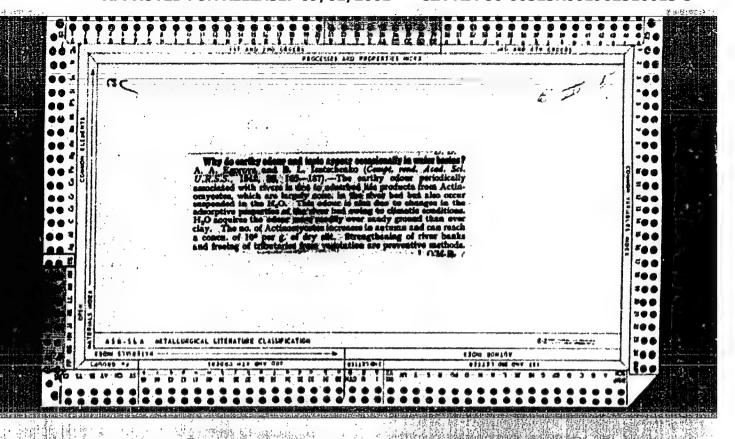
"A Study of the Microflora on the Intestines of Arctic Animals," Mikrobiol., 9, No.1, 1940

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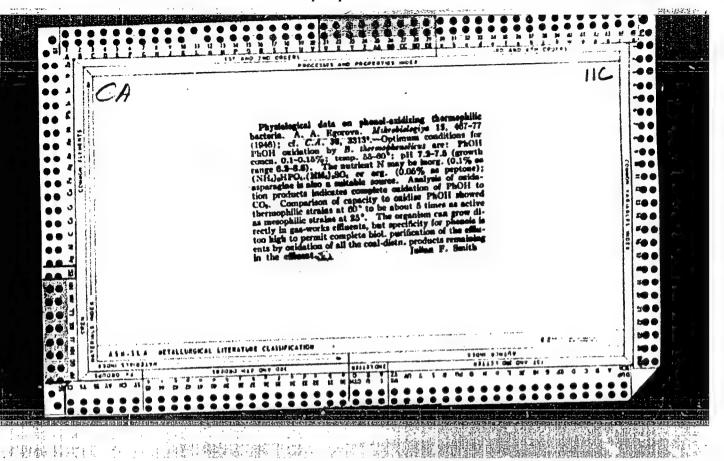
"Microbiological Investigation of the Air, Snow, and Ice of the Kara Sea," Mikrobiol., 9, Nos.9-10, 1940

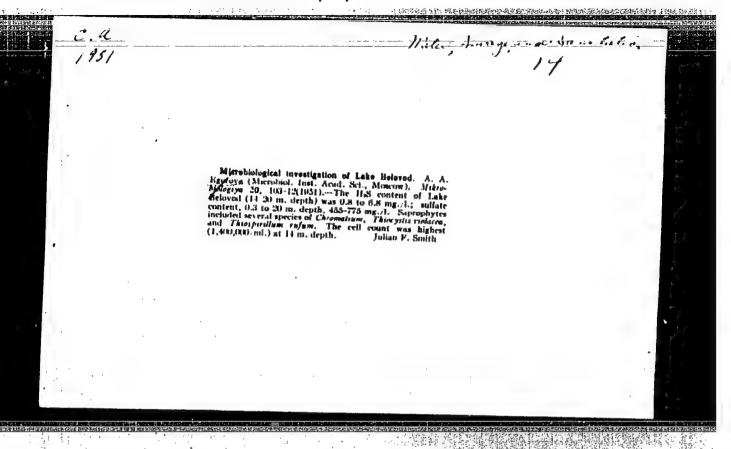






"Actinomycetes in Reservoirs, as One of the Causes Responsible for the Earthy Smell of Their Waters," Mikrobiol., 13, No.5, 1944





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Characterization of saprophyte microflora of lake waters. Tridy Inst. Mikrobiol., Akad. Nauk S.S.S.R. No.2, 139-49 52. (MLRA 5:12) (CA 47 no.16:8293 53)

# YEGOROVA, A.A.

Use of stiff vegetation as green fertilizer in fish breeding farms on the Volga Delta. Trudy Inst. mikrobiol. no.3:201-212 154.

(Volga Delta-Fish culture)

(Fertilizers and manures)

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## YEGOROVA, A.A.

Use of herbicides in controlling reeds and its effect on microorganisms and fish. Vop.ikht.no.3:186-200 '55. (MLRA 8:11)

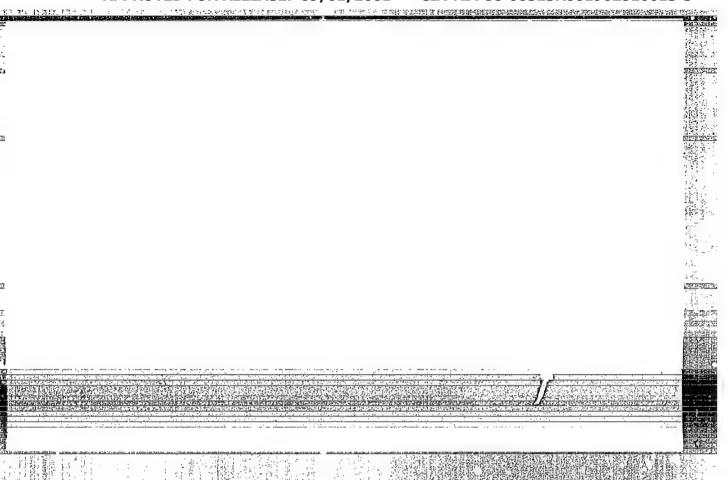
1. Institut mikrobiologii Akademii Nauk SSSR (Fresh-water fauna)

 KUZNETSOV, S.I.; KARZINKIN, G.S.; YEGOROVA, A.A.; KASTAL'SKAYA, M.A.; KARASIKOVA, A.A.; IVANOV, H.V.; ZAVARZIN, G.A.; DERYUGINA, Z.P.

Rigid vegetation as green fertilizer for increasing the productivity of fish farms. Vop.ikht. no.5:119-137 '55. (MLRA 9:5)

1. Institut mikrobiologii Akademii nauk SSSR i Vsesoyuznyy nauchno-issledovatel skiy institut morskogo rybnogo khozyaystva i okeanografii, VNIRO.

(Fish culture)



YEGOROVA. A.A. DERYUGINA. Z.P.

Hew method of making microscopic preparations from petroleum [with summary in English]. Mikrobiologiia 27 no.4:501-502 J1-Ag '58 (MIRA 11:9)

1. Institut mikrobiologii AN.SSSR.

(PETROLEUM PRODUCTS,

method for producing microscopic prep. from petroleum
(Rus))

YEGOROVA, A.A.: DERYUGINA, Z.P.

Isolating pure cultures of micro-organisms (modified of L.I. Komarova's method). Mikrobiologiia 28 no.4:611 J1-Ag '59. (MIRA 12:12)

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VOYTOV, V.I.; YEGOROVA, A.A.: TARASOV, N.I.

Luminiscence of cultures of the free-moving Bacterium Issatchenkoi Egorova from the Black Sea. Dokl.AN SSSR 132 no.6:1425-1426 Je '60. (MIRA 13:6)

1. Institut mikrobiologii Akademii nauk SSSR. Predstavleno akademikow V.N.Shaposhnikovym.

(BIACK SKA—RACTERIA, LUMINOUS)

(THYPTONE)

YEGOROVA, A.A.; DERYUGINA, Z.P.

The sporeforming Thiobacillus thermophilica Imachenetakii now. sp. Mikrobiologiia 32 no.3:439-446 My-Je\*63 (MIRA 17:3)

1. Institut mikrobiologii AN SSSR.

CHUMAKOVA, R.I.; YEGOROVA, A.A.

Luminescence and oxidative enzyme activity of luminescent bacteria. Mikrobiologiia 33 no.3:423-427 My-Je \*64.

1. Institut fiziki Sibirskego otdeleniya AN SSSR 1 Institut mikrobiologii AN SSSR, Moskva. Submitted May 3, 1963.

CHUMAKOVA, R.I.; YEGOROVA, A.A.

Action of aminazin on the bioluminescence of bacteria.
Mikrobiologiia 33 no.4:639-643 Jl-Ag '64. (MIRA 18:3)

l. Institut mikrobiologii AN SSSR i Institut fiziki Sibirskogo otdeleniya AN SSSR,

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20613-66 SOURCE CODE: - UR/0065/66/000/004/0047/0048 ACC NR: AP6010830 AUTHOR: Kobzova, R. I.; Tubyanskaya, G. S.; Oparina, Ye. M.; Zaytsev, V. A.; Yegorova, A. A. ORG: VNIINP TITLE: TsTM: \ a new effective stabilizer for silicone lubricants SOURCE: Khimiya i tekhnologiya topliv i masel, no. 4, 1966, 47-48 TOPIC TAGS: lubricant, lubricant additive, silicone lubricant, antioxidant additive ABSTRACT: A study has been made of the antioxidant effectiveness of cyclopentadienyltricarbonylmanganese (designated TsTM in the source) in silicone lubricants. TsTM was found to surpass existing silicone antioxidants in stabilizing effectiveness-and-solubility. -- It -is-noted-that-prolonged-service-of-silicone-lubricants-at-150-200C and above is normally rendered impossible by oxidation and polymerization and that existing antioxidant additives are insufficiently effective. The silicone lubricant used in this study was PMS-100 polydimethylsiloxane fluid (MRTU-6 No. YeU-230-61 specifications). The criterion of entioxidation effectiveness was the gelation time at 250-350C. ToTM was found to be a highly effective stabilizer of the PMS-100 fluid. At 250C the curve TsTM concentration versus effectiveness went through a maximum at 0.5%; at this maximum the gelation time was increased by a factor of 250. The optimum TsTM concentration was dependent on temperature. TsTM 665.521.5:547'28 UDC: Card 1/2

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YEGOROVA, A.G.; GIMMERVERT, R.V.; LOPASHOVA, Ye.V.; YELENSKAYA, A.N.; LOBANOVA, A.Ya.; KHANZHINA, Ye.B., red.; SHILLING, V.A., red. izd-va; BELOGUROVA, I.A., tekhm. red.

[System of preparing the rye-bread dough in an N.F.Gatilin outfit]
Rezhim prigotovleniia testa dlia rzhanogo khleba v agregate N.F.Gatilina. By A.G.Egorova i dr. Leningrad, 1961. 16 p. (Leningradskii
Dom nauchno-tekhnicheskoi propagandy. Obmen peredovym opytom. Seriia: Khlebopekarnaia promyshlemost;, no.1) (MIRA 14:10)
(Dough) (Baking-Equipment and supplies)

 YEGOROVA, Aleksandra Georgiyevna; KNYAGINICHEV, M.I., doktor khima nauk, prof., red.; FREGER, D.P., red. izd-va; GVIHTS, V.L., tekhn. red.

[Nutritional value of bread and the preservation of its freshness; transcript of a report made at a seminar of representatives of the bakery industry in the Leningrad House of Scientific and Technical Propaganda]Pishchevaia tsennost! khleba i sokhranenie ego svezhesti; stenogramma doklada, prochitannogo v LDNTP na seminare rabotnikov khlebopekarnoi promyshlennosti. Pod red. M.I.Kniaginicheva. Leningrad, Leningr. dom nauchnotekhn. propagandy, 1962. 57 p. (MIRA 15:9)

KAZANSKAYA, Lyudmila Nikolayevna, kand. biol. nauk; YEGOROVA, A.G., red.; FREGER, D.P., red. izd-va; BELOGUROVA, I.A., tekhn. red.

[Chemical nature and possible ways of improving the taste and flavor of breed]Khimicheskaia priroda i vozmozhnye puti uluch-sheniia vkusa i aromata khleba; stenogramma dokleda, prochitannogo v LDNTP na seminare rabotnikov khlebopekarnoi promyshlennosti. Pod red. A.G. Egorovoi. Leningrad, 1962. 50 p.

(MIRA 15:9)

(Bread)

YEGOROVA, A.G.; KAZANSKAYA, L.N.; LOPANOVA, A.Ya.; MELIKHOVA, Z.V.; BESPALOVA, I.G.; SHCHERBACH, V.A.

[Using the new yeast and lactic acid bacteria strains in making tin rye bread] Prigotovlenie rzhanogo formovogo khleba s primeneniem novykh shtammov molochnokislykh bakterii i drozhzhei. Moskva, TSentr. in-t nauchno-tekhn. informatsii pishchevoi promyshl., 1963. 28 p.

(MIRA 17:9)

· 生物 多數學學學是不多數學學就是由多數學的學學是不可以的學學學

YEGOROVA, A.G.; KAZANSKAYA, L.E.; SEMIDT, Z.I.; LCFASHOVA, Ye.V.; BEZRUCHENKO, L.P.

[New strains of lactic acid bacteria for rye leaven preparation] Novye shtammy molechnokislykh bakterii rzhanykh zakvasok. Moskva, TSentr. in-t nauchno-tekhn. informatsii pishchevoi pronyshl., 1963. 34 p. (MIRA 17:8)

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